

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST) Ph.D. in Mathematical Sciences Advisor: Prof. Bo-Hae Im	Daejeon, Korea Mar. 2024 – Current
Korea Advanced Institute of Science and Technology (KAIST) M.S. in Mathematical Sciences Advisor: Prof. Bo-Hae Im – Thesis: <i>A numerical method to find an optimal independent system for certain congruence subgroups</i>	Daejeon, Korea Feb. 2024
Ulsan National Institute of Science and Technology (UNIST) B.S. in Mathematical Sciences, Minor in Computer Science and Engineering Graduated <i>Summa Cum Laude</i> Advisor: Prof. Hae-Sang Sun – Thesis: <i>Introduction to class field theory</i>	Ulsan, Korea Feb. 2022
Daejeon Dongsin Science High School	Daejeon, Korea Feb. 2018

RESEARCH EXPERIENCE

Korea Advanced Institute of Science and Technology (KAIST) Master and Ph.D. student at <i>Mathematical Sciences</i> , Bo-Hae Im Lab – Modular forms seminar – Optimal independent generating system of congruence subgroups – Mean values of derivatives of modular L -series	Daejeon, Korea Aug. 2022 – Current
Ulsan National Institute of Science and Technology (UNIST) Research Intern at <i>Mathematical Sciences</i> , Hae-Sang Sun Lab – Class field theory seminar	Ulsan, Korea Mar. 2021 – Aug. 2021

RESEARCH INTEREST

- Algebraic Number Theory
 - Modular forms / Automorphic forms
 - Hecke congruence subgroups
 - Modular equations and modular relations
- Analytic Number Theory
 - Moments of twisted L -functions
 - Various Ramanujan continued fractions

TEACHING EXPERIENCE

- **KAIST**

Calculus I, TA (Spring 2023)
Introduction to Number Theory, TA (Spring 2023)
Calculus II, TA (Fall 2022, Fall 2023)
Linear Algebra, TA (Fall 2022, Fall 2023)
Introduction to Linear Algebra, TA (Spring 2022)

- **UNIST**

Calculus I, TA (Spring 2019, Spring 2020, Spring 2021)
Calculus II, TA (Fall 2019, Fall 2020, Fall 2021)

SERVICE

- Graduate Student Representative in Department of Mathematical Sciences, KAIST Feb. 2024–Current
- Co-organizing 2024 Workshop for Young Mathematicians in Korea ([WYMK 2024](#)) Jan. 2024 – Current
- Co-organizing 2023 Workshop for Young Mathematicians in Korea ([WYMK 2023](#)) Jan. 2023 – Aug. 2023
- Co-organizing 2022 Workshop for Young Mathematicians in Korea ([WYMK 2022](#)) Sept. 2022 – Dec. 2022
- Co-organizing KAIST Math Graduate student Seminar ([KMGS](#)) Feb. 2024 – Current

AWARDS AND HONORS

Best TA Award at KAIST Aug. 2022
National Excellence Scholarship (Natural Sciences and Engineering) Mar. 2020 – Feb. 2022
Silver Prize at UNIST Math Competition Nov. 2018

SKILLS AND TECHNIQUES

Programming: Python, C++, Java, HTML/CSS, \LaTeX , MATLAB

Language: Korean (native), English (intermediate), Chinese (beginner)

Last Updated: February 18, 2024